

FEATURES AND SPECIFICATIONS

molex® 1.27mm (.050") Pitch
CPU Socket

Molex offers the Socket S1 for AMD Turion™ 64 and Athlon™ 64 Mobile Processor in 638 pin µPGA Package

The Socket S1 socket is designed for Advanced Micro Devices (AMD) Turion 64 and Athlon 64 mobile processors. The 638-pin micro pin grid array (µPGA) is packaged for the notebook PC industry. This socket will replace existing Socket 754 for notebooks. It will support dual-channel DDR2 SDRAM, dual-core mobile CPUs and virtualisation technology.

Our high density PGA sockets feature low profile and proven Ball Grid Array BGA soldering technology for stable PCB processing.

47296
Socket S1



Features

Benefits

- | | |
|---|---|
| <ul style="list-style-type: none">• High-temperature thermoplastic housing/cover• PGA contact/BGA solder• Lead free BGA solder balls• Actuation Cam• Zero Insertion Force Socket• Dual Beam Contact Design | <ul style="list-style-type: none">• Withstands lead-free processing• Prevents CPU misalignment• Compliant with environmental needs• Easy CPU insertion/removal during high volume production and tool less operation for end customer• Prevent contact from being damage• Reliable electrical and mechanical performance |
|---|---|

SPECIFICATIONS

Reference Information

Packaging: Embossed Tape on Reel

UL File No.: TBD

Mates With: AMD Turion Processor and
AMD Athlon 64 Processor

Designed In: mm

Electrical

Voltage: 100V DC

Current: 1.5A

Contact Resistance: 17 milliohms max.

Dielectric Withstanding Voltage: 650V AC

Insulation Resistance: 1000 Megohms min.

Mechanical

Insertion Force to Socket: Zero Insertion Force

Cam Actuation/De-Actuation Force: 2.5 in-lbf

Durability: 30 cycles

Physical

Housing: LCP, UL 94-0

Contact: Copper Alloy

Plating:

Contact Area — 0.25 µm (10 µ") Gold

Underplating — 1.27 µm (50µ") Nickel overall

MARKETS AND APPLICATIONS

- **Notebook Industry**

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ORDERING INFORMATION

Lead-Free Order No.	Description
47296-6111	1.27mm (0.050") Pitch Socket S1, 638 Circuits, 0.25μm (10μ") Gold, Vertical, Surface Mount



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